

#3

Sheet 1 of 6

Form PTO-1449 (REV. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 74451.P041X1D		SERIAL NO. 09/236,753	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Keith, et al.			
				FILING DATE 1/25/99		GROUP 2621 2721	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
pt pt pt pt pt pt pt pt pt pt	4 9 8 5 9 2 7	1/15/91	Norwood et al.	—	—		
	4 9 8 7 4 8 0	1/22/91	Lippman et al.	—	—		
	5 0 0 0 1 8 3	3/19/91	Bonnefous	—	—		
	5 0 0 1 7 6 4	3/19/91	Wood et al.	—	—		
	5 0 1 4 1 3 4	5/7/91	Lawton et al.	—	—		
	5 0 1 8 2 1 0	5/21/91	Merryman et al.	—	—		
	5 0 6 8 9 1 1	11/26/91	Resnikoff et al.	—	—		
	5 0 7 3 9 6 4	12/17/91	Resnikoff	—	—		
	5 0 8 1 6 4 5	1/14/92	Resnikoff et al.	—	—		
	5 0 9 5 4 4 7	3/10/92	Manns et al.	—	—		
pt	5 1 0 1 4 4 6	3/31/92	Resnikoff et al.	—	—		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
pt pt pt	9 4 2 3 3 8 5	10/13/94	PCT	—	—		
	0 6 2 2 7 4 1	3/30/94	EPO	—	—		
	2 2 8 4 1 2 1	5/24/95	UK	—	—		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
pt		"1977 IEEE International Conference on Acoustics, Speech & Signal Processing", "Application of Quadrature Mirror Filters to Split Band Voice Coding Schemes", D. Esteban and C. Galand, p. 191-195.					
pt		Martin Vetterli, "Filter Banks Allowing Perfect Reconstruction", Signal Processing 10 (1986), p. 219-244.					
pt		R. E. Crochiere, S. A. Webber, J. L. Flanagan, "Digital Coding of Speech in Sub- bands", 1976, American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 55, No. 8, October 1976, p. 1069-1085.					
EXAMINER p. Inoc Tran				DATE CONSIDERED 6/24/02			
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pt		5 1 0 3 3 0 6	4/7/92	Weiman et al.	—	—	
		5 1 2 1 1 9 1	6/9/92	Cassereau et al.	—	—	
		5 1 2 4 9 3 0	6/23/92	Nicolas et al.	—	—	
		5 1 2 8 7 5 7	7/7/92	Citta et al.	—	—	
		5 1 4 8 4 9 8	9/15/92	Resnikoff et al.	—	—	
		5 1 5 2 9 5 3	10/6/92	Ackermann	—	—	
		5 1 5 6 9 4 3	10/20/92	Whitney	—	—	
		5 1 7 3 8 8 0	12/22/92	Duren et al.	—	—	
		5 4 2 0 8 9 1	5/30/95	Akansu	—	—	
		3 5 8 0 6 5 5	5/25/71	Leith et al.	—	—	
	3 9 5 0 1 0 3	4/13/76	Schmidt-Weinmar	—	—		
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pt		9 6 0 9 7 1 8	3/28/96	PCT	—	—	
		9 5 1 9 6 8 3	7/20/95	PCT	—	—	
		0 7 0 1 3 7 5	3/13/96	EPO	—	—	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
pt		John W. Woods and Sean D. O'Neil, "Sub-band Coding of Images", Proceedings ICASSP 86, Tokyo, Japan, April 1986, p. 1005-1008.					
pt		John W. Woods, "Subband Coding of Images", IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-34, No. 5, October 1986, p. 1278-1288.					
pt		"Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 3 of 4, "Sub-band Coding of Images Using Predictive Vector Quantization", P. H. Westernick, J. Biemond and D. E. Boekee, p. 1378-1381.					
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Keith, et al.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
pt	4 8 2 9 3 7 8	5/9/89	Legall	—	—	
pt	4 8 3 7 5 1 7	6/6/89	Barber	—	—	
pt	4 8 6 4 3 9 8	9/5/89	Avis et al.	—	—	
pt	4 8 9 7 7 1 7	1/30/90	Hamilton et al.	—	—	
pt	4 9 0 4 0 7 3	2/27/90	Lawton et al.	—	—	
pt	4 9 2 9 2 2 3	5/29/90	Walsh	—	—	
pt	4 9 3 6 6 6 5	6/26/90	Whitney	—	—	
pt	4 9 7 4 1 8 7	11/27/90	Lawton	—	—	
pt	4 9 8 2 2 8 3	1/1/91	Acampora	—	—	
pt	4 3 9 3 4 5 6	7/12/83	Marshall, Jr.	—	—	
pt	4 5 6 9 0 7 5	2/4/86	Nussbaumer	—	—	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
pt	2 2 1 1 6 9 1	7/5/89	UK	—	—		
pt	0 5 9 3 0 1 3	4/20/94	EPO	—	—		
pt	0 5 1 0 9 3 3	10/28/92	EPO	—	—		
pt	8 8 1 0 0 4 9	12/15/88	PCT	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

pt	"Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 4 of 4, "Application of Quadrature Mirror Filtering to the Coding of Monochrome and Color Images", H. Gharavi and A. Tabatabai, p. 2384-2387.
pt	International Search Report for Application No.: GB 9518298.6, dated 8 November 1995.

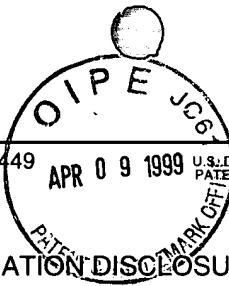
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pt		4	6	5	2	8	8	1	3/24/87	Lewis	—	—	
pt		4	6	7	4	1	2	5	6/16/87	Carlson et al.	—	—	
pt		4	7	8	5	3	4	8	11/15/88	Fonsalas et al.	—	—	
pt		4	7	9	9	1	7	9	1/17/89	Masson et al.	—	—	
pt		4	8	1	5	0	2	3	3/21/89	Arbeiter	—	—	
pt		4	8	3	9	8	8	9	6/13/89	Gockler	—	—	
pt		4	8	6	8	8	6	8	9/19/89	Yazu et al.	—	—	
pt		4	9	1	8	5	2	4	4/17/90	Ansari et al.	—	—	
pt		5	0	4	9	9	9	2	9/17/91	Citta et al.	—	—	
pt		5	0	4	9	9	9	3	9/17/91	Legall et al.	—	—	
pt		5	0	7	2	3	0	8	12/10/91	Lin et al.	—	—	
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pt	5 0 9 7 3 3 1	3/17/92	Chen et al.	—	—	
pt	5 1 0 1 2 8 0	3/31/92	Moronaga et al.	—	—	
pt	5 1 2 8 7 9 1	7/7/92	Legall et al.	—	—	
pt	5 1 8 2 6 4 5	1/26/93	Breeuwer et al.	—	—	
pt	5 3 1 5 6 7 0	5/24/94	Shapiro	—	—	
pt	5 3 2 1 7 7 6	6/14/94	Shapiro	—	—	
pt	5 4 1 2 7 4 1	5/2/95	Shapiro	—	—	
pt	4 1 5 5 0 9 7	5/15/79	Lux	—	—	
pt	4 1 9 0 8 6 1	2/26/80	Lux	—	—	
pt	5 2 6 2 9 5 8	11/16/93	Chui et al.	—	—	
pt	5 4 9 5 2 9 2	2/27/96	Zhang et al.	—	—	

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